



## SAFETY DATA SHEET

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Date Issued: 12/03/2013  
Date revised:

TerraCair by Brenntag  
UltraPure DEF

## 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAMES: TerraCair by Brenntag,  
UltraPure DEF

SUPPLIER: BRENNTAG NORTH AMERICA INC.  
5083 POTTSVILLE PIKE  
READING, PA  
PHONE NUMBER: 1-866-363-5843

## 2 HAZARD IDENTIFICATION



**WARNING:** Causes skin irritation. Causes eye irritation. Harmful if swallowed.

**Prevention:**

Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe mists. Use proper personal protective equipment.

**Response:**

IF ON SKIN: Wash with plenty of water for at least 15 minutes. If skin irritation occurs: get medical advice. Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists: Get medical attention.

IF SWALLOWED: Call a doctor/physician if you feel unwell. Rinse mouth.

**Storage:**

Store in a cool dry place out of sunlight between 12 deg. F (11 deg C) and 86 deg F (30 deg C)

**Disposal:**

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Read and understand this complete Safety Data Sheet for this product before handling.

## 3 COMPOSITION/INFORMATION ON INGREDIENTS

## EXPOSURE LIMITS, PPM

COMPONENT	TWA	STEL	PEL	IDLH	CAS NO.
UREA	25	35	50	300	57-13-6
WATER	--- NONE ESTABLISHED ---				7732-18-5



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### 4 FIRST AID MEASURES

IF INHALED: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET IMMEDIATE MEDICAL ATTENTION.

IN CASE OF EYE CONTACT: IMMEDIATELY FLUSH EYES WITH LOTS OF RUNNING WATER FOR 30 MINUTES, LIFTING THE UPPER AND LOWER LIDS OCCASIONALLY. GET IMMEDIATE MEDICAL ATTENTION.

IN CASE OF SKIN CONTACT: IMMEDIATELY WASH SKIN WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND SHOES; WASH BEFORE RE-USE. GET MEDICAL ATTENTION.

IF SWALLOWED: DO NOT INDUCE VOMITING. IF CONSCIOUS GIVE 2 GLASSES OF WATER OR MILK. GET IMMEDIATE MEDICAL ATTENTION. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

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### 5 FIRE FIGHTING MEASURES

FLASH POINT, DEG F: N/A  
METHOD USED: TCC

FLAMMABLE LIMITS IN AIR, % (VOL)  
LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA: WATER, CARBON DIOXIDE, FOAM, POWDER EXTINGUISHER.

SPECIAL FIRE FIGHTING PROCEDURES: FIRE FIGHTERS SHOULD WEAR PROTECTIVE CLOTHING AND NIOSH APPROVED RESPIRATOR.

UNUSUAL FIRE AND EXPLOSION HAZARDS: WATER MAY BE USED TO KEEP FIRE-EXPOSED CONTAINERS COOL UNTIL THE FIRE IS OUT. MATERIAL IS NOT CONSIDERED FLAMMABLE BUT THE RESIDUE MAY BURN IN THE PRESENCE OF A STRONG IGNITION SOURCE AFTER THE WATER HAS BEEN EVAPORATED.

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### 6 ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS OR LEAKS: WEAR PROTECTIVE CLOTHING. DIKE AND CONTAIN SPILL, WITH INERT ABSORBENT MATERIAL. REMOVE SPILLED MATERIAL TO CONTAINERS FOR RECOVERY/DISPOSAL. SOAK UP RESIDUE (SMALL SPILLS) ABSORB ON INERT MATERIAL AND PLACE IN CONTAINERS FOR DISPOSAL.

COMPLY WITH ALL APPLICABLE GOVERNMENTAL REGULATIONS ON SPILL REPORTING AND HANDLING AND DISPOSAL OF WASTE.

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### 7 HANDLING & STORAGE

HANDLING AND STORAGE PRECAUTIONS: STORE IN A COOL DRY PLACE OUT OF SUNLIGHT BETWEEN 12 DEG. F(11 DEG C) AND 86 DEG F (30 DEG C)

OTHER PRECAUTIONS: CAUTION! CONTACT WITH EYES, SKIN AND MUCOUS MEMBRANES MAY CAUSE IRRITATION.  
\* AVOID CONTACT WITH EYES, SKIN AND CLOTHING \* AVOID BREATHING MIST OR DUST  
\* USE WITH ADEQUATE VENTILATION

REPAIR AND MAINTENANCE PRECAUTIONS: DO NOT CUT, GRIND, WELD, OR DRILL ON OR NEAR CONTAINERS.

OTHER PRECAUTIONS: CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED, WILL RETAIN PRODUCT RESIDUE AND VAPORS. ALWAYS OBEY HAZARD WARNINGS AND HANDLE EMPTY CONTAINERS AS IF THEY WERE FULL. CONTACT WITH ALUMINUM PARTS IN A PRESSURIZABLE FLUID SYSTEM MAY CAUSE VIOLENT REACTIONS. CONSULT EQUIPMENT SUPPLIER FOR FURTHER INFORMATION.



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### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: ORDINARILY, NATURAL VENTILATION IS ADEQUATE. IF MISTING, MECHANICAL (GENERAL) VENTILATION IS GENERALLY ADEQUATE.

RESPIRATORY PROTECTION: NOT GENERALLY REQUIRED. IF MISTY CONDITION PREVAILS, WEAR NIOSH APPROVED MIST RESPIRATOR.

EYE PROTECTION: CHEMICAL GOGGLES WITH FULL FACE SHIELD. CONTACT LENSES SHOULD NOT BE WORN.

PROTECTIVE CLOTHING: NOT GENERALLY REQUIRED.

OTHER PROTECTIVE MEASURES: AN EYEWASH AND SAFETY SHOWER SHOULD BE NEARBY, UNOBSTRUCTED AND READY FOR USE. PROTECTIVE EQUIPMENT SHOULD BE SELECTED, USED, AND MAINTAINED ACCORDING TO APPLICABLE STANDARDS.

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### 9 CHEMICAL AND PHYSICAL PROPERTIES

BOILING POINT, DEG F: >223	VAPOR PRESSURE, MM HG/20 DEG C: WATER VAPOR
MELTING POINT, DEG F: N/A	VAPOR DENSITY (AIR=1): WATER VAPOR
SPECIFIC GRAVITY (WATER=1): 1.14	WATER SOLUBILITY, %: COMPLETE
APPEARANCE AND ODOR: CLEAR,	VAPORATION RATE (BUTYL ACETATE=1): WATER VAPOR
COLORLESS ELIQUID WITH AMMONIA ODOR	

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### 10 STABILITY AND REACTIVITY

STABILITY: STABLE                      POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: HEATING ABOVE 266 °F

MATERIALS TO AVOID: SODIUM NITRITE, PHOSPHORUS PENTACHLORIDE, AND NITROSYLPERCLORATE. MAY REACT WITH NITRATES, ALKALIES, OXIDIZING AGENTS, HYPOCHLORITE, ALDEHYDES, INORGANIC ACIDS, ALEFINS, AND POLYMERIZABLE ESTERS. CORROSIVE TO COPPER AND COPPER ALLOYS.

HAZARDOUS DECOMPOSITION PRODUCTS: ABOVE 266 °F DECOMPOSITION STARTS WITH FORMATION OF AMMONIA, CYANURIC ACID, CYANIC ACID, CARBON DIOXIDE, BIURET, AND NITROGEN OXIDES.

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### 11 TOXICOLOGICAL INFORMATION

**UREA:**

ORAL: RAT LD50 = 14,300-15,000 MG/KG

DERMAL: NO DATA AVAILABLE

INHALATION: NO DATA AVAILABLE

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### 12 ECOLOGICAL INFORMATION

ECOLOGICAL TESTING HAS NOT BEEN CONDUCTED ON THIS PRODUCT BY BRENNTAG

TerraCair by Brenntag  
UltraPure DEF**13 DISPOSAL INFORMATION**

DISPOSAL METHODS: DISPOSE OF CONTAMINATED PRODUCT AND MATERIALS USED IN CLEANING UP SPILLS OR LEAKS IN A MANNER APPROVED FOR THIS MATERIAL. CONSULT APPROPRIATE FEDERAL, STATE, AND LOCAL REGULATORY AGENCIES TO ASCERTAIN PROPER DISPOSAL PROCEDURES.

NOTE: EMPTY CONTAINERS CAN HAVE RESIDUES, GASES, AND MISTS AND ARE SUBJECT TO PROPER WASTE DISPOSAL AS ABOVE.

**14 TRANSPORTATION INFORMATION**

NOT REGULATED BY DOT

**15 REGULATORY INFORMATION**

## SECTION 313 SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

<u>CAS #</u>	<u>CHEMICAL NAME</u>	<u>PERCENT BY WEIGHT</u>
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NONE

**"US TOXIC SUBSTANCE CONTROL ACT (TSCA) – ALL INGREDIENTS LISTED"****16 OTHER INFORMATION**

## HAZARD RATING (NFPA 704)

HEALTH: 1  
FIRE: 0  
REACTIVITY: 0  
SPECIAL: NONE

## HAZARD RATING SCALE:

0=MINIMAL      3=SERIOUS  
1=SLIGHT      4=SEVERE  
2=MODERATE



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\*\*\*\*\*END OF MSDS\*\*\*\*\*